

NK6000 Multi Functional Optical Time Domain Reflectometer

OTDR Series

Product overview



NK6000 multi-functional OTDR adopts 5.6 inch color screen, double operation of keys and touch. It integrates of OTDR, Visual Fault Location, Event Map, Optical Power Meter, Light Source, Optical Loss Test, Optical End Face Detection, multi-functions to help customers efficiently solve the field test and maintenance; Intelligent power management, 20 hours of super long standby, efficient guarantee of field test and maintenance.

It is mainly used to measure the length, loss, connection quality and other parameters of all kinds of optical fiber and cable. It can be widely used in engineering construction, emergency repair of communication system of optical fiber communication system, research and production measurement of optical fiber cable.

Basic Instrument Series

Product features

- 0.8m event blind area, easy to test 5m jumper
- Support SM/MM/SM+MM test
- Detection of online test, APD active protection
- Standard SOR file output format
- Unique automatic diagnosis function of test results
- Multi wavelengths simultaneous test
- Batch processing of data, printing report forms
- Nomenclature in Chinese and English
- Key + touch screen dual operation mode

Modular Test Equipment



5.6 inch screen
Key + touch operation mode



Detection of online test
Caution function



Event Map
Intelligent link analysis



One button automatic test
Results automatic analysis



Report printing
Files batch processing

Fiber Health Monitor System

NK6000 Technical specifications

OTDR Series

Basic Instrument Series

Modular Test Equipment

Fiber Health Monitor System

OTDR																	
Model	S1	S2	S3	S4	T1	T2	T3	T4	T5	T6	F1	M1	SM1	SM2			
Type	SM											MM	SM/MM				
Wavelength	1310/1550nm				1310nm /1490nm /1550nm		1310nm /1550nm /1625nm		1310nm /1550nm /1650nm		1310nm /1490nm /1550nm /1625nm		850nm /1300nm	850nm /1300nm /1310nm /1550nm			
MaxDynamic Range(dB)	35/33	38/36	42/40	45/43	32/30/30	37/35/35	32/30/30	37/35/35	32/30/30	37/35/35	32/30/30	37/35/35	37/35/35/33	26/28	26/28/35/33	26/28/37/35	
Event Blind Zone	1m				0.8m											1m	
ATT Blind zone	6m				6m											6m	
Test Range	500m/1km/2km/4km/8km/16km/32km/64km/128km/256km																
Pulse Width	3ns/5ns/10ns/30ns/50ns/80ns/160ns/320ns/500ns/800ns/1000ns/3000ns/5000ns/8000ns/10000ns/20000ns																
Ranging accuracy	± (0.75m+ Sample interval +0.005% × Test distance)																
Loss accuracy	±0.05dB/dB																
Sample Points	16k~256k																
Sample Resolution	0.05m~16m																
Reflection Accuracy	±3dB																
File Format	SOR Standard File Format																
Loss Analysis	4-point method /5-point method																
Laser Safety Level	Class II																
Refresh Rate	3Hz (Typ.)																
Data Storage	Internal storage: ≤3000 curves; External storage: 4G bit																
Connector	FC/UPC (Interchangeable SC、ST)																
Data Interface	USB、Mini-USB、10M/100M Ethernet Port																
OPM																	
Wavelength range	800nm~1700nm																
Connector	Universal FC/SC/ST																
Test scope	-50dBm~+26dBm																
Uncertainty	±5%																
Calibration wavelength	850nm/980nm/1300nm/1310nm/1490nm/1550nm/1625nm/1650nm																
LS																	
Wavelength	Consistent with OTDR output wavelength																
Output power	≥-5dBm																
Stability	CW, ±0.5dB/15min (Test after 15 minutes of preheating)																
Connector	FC/UPC (Interchangeable SC、ST)																
VFL																	
Wavelength	650nm±20nm																
output power	≥ 10 mW																
Mode	CW/1Hz/2Hz																
Connector	FC/UPC (Interchangeable SC、ST)																
The Optical Loss Test index refers to the above light source and optical power meter index.																	
Others																	
Display	5.6 inch color LCD + touch screen																
Power supply	AC/DC adapter: Input: 100V~240V, 50/60Hz, 0.6A, Output: 12V~19V, 1.5A, Lithium battery: 7.4V, 5200mAh																
working temperature	-10°C~+50°C																
Storage temperature	-40°C~+70°C																
relative humidity	0~95%, Non Condensing																
Weight	≤1.2kg																
Size	227mm × 160mm × 70mm																
Functions of Host: OTDR/OPM/VFL/LS/Event Map/Fiber End Detection (Additional purchase detector) /Optical Loss Test																	

Configuration list

NO.	Name	Quantity	Remarks
1	Host	1	
2	AC/DC power adapter	1	
3	U disk (containing analysis software/ User's Manual)	1	
4	Touch pen	1	
5	Data line	1	
6	OTDR SC adapter	1	

7	OPM SC adapter	1	
8	User's Manual	1	
9	Calibration certification	1	
10	Certificate/ Warranty card	1	
11	Clean cotton piece	10	
12	Leather knob	1	
13	Special backpack for instrument	1	